



DEPARTMENT OF THE NAVY  
NAVAL AIR SYSTEMS COMMAND  
NAVAL AIR SYSTEMS COMMAND HEADQUARTERS  
47123 BUSE ROAD, UNIT # IPT  
PATUXENT RIVER, MD 20670-1547

IN REPLY REFER TO

NAVAIRINST 13800.13B  
PMA251

JUL 14 1998

NAVAIR INSTRUCTION 13800.13B

From: Commander, Naval Air Systems Command

Subj: CERTIFICATION OF SHORE-BASED AIRCRAFT RECOVERY EQUIPMENT  
AND VISUAL/OPTICAL LANDING AIDS SYSTEMS

Ref: (a) OPNAVINST 4790.2G  
(b) SECNAVINST 5214.2B

Encl: (1) Shore-based Aircraft Recovery Equipment and  
Visual/Optical Landing Aids Systems Requiring  
Certification

1. Purpose. To establish procedures and delineate responsibilities for the formal inspection and certification of shore-based aircraft recovery equipment and visual/optical landing aids systems.
2. Cancellation. NAVAIRINST 13800.13A. Since this is a major revision, changes are not indicated.
3. Scope. This instruction applies to Navy, Marine Corps, and Department of Defense (DoD) contractor shore-based aircraft operating facilities, which use the shore-based aircraft recovery equipment and visual/optical landing aids systems listed in enclosure (1).
4. Background. The Commander, Naval Air Systems Command (COMNAVAIRSYSCOM), has life cycle management responsibility for shore-based equipment and systems listed in enclosure (1). Variations in airfield capabilities and missions result in a divergence in the configuration of installed equipment and systems. To ensure that installed systems and equipment are operated and maintained properly, an inspection and certification program is required.
5. Certification. Certification is the formal procedure the Naval Air Systems Command (NAVAIR) uses to periodically verify and document that various shore-based aircraft recovery equipment and visual/optical landing aids systems are installed, configured, maintained, and operated in a manner supportive of safe aircraft operations.

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The following certification procedures are authorized:

a. Formal Certification. Formal certification is issued by the Naval Air Warfare Center Aircraft Division, Lakehurst (NAVAIRWARCENACDIVLKE) by direction of COMNAVAIRSYSCOM. The NAVAIRWARCENACDIVLKE (Code 4.8.1) Carrier and Field Service Unit (CAFSU) or Expeditionary Airfield Service Unit (EASU) representatives conduct inspections and make recommendations toward certification or recision of certification of shore-based aircraft recovery equipment or visual/optical landing aids systems.

b. Interim Certification. Interim certification is the temporary authority granted by the CAFSU or EASU representative upon satisfactory completion of a certification inspection. Interim certifications remain in effect until formal certification documentation is issued by NAVAIRWARCENACDIVLKE.

6. Certification Requirements. All shore-based aircraft recovery equipment and visual/optical landing aids systems will be installed, configured, maintained, and operated per applicable Chief of Naval Operations (CNO) and NAVAIR technical manuals, directives, and other applicable directives issued by higher authority. Inspection and certification is required on all equipment and systems listed in enclosure (1). The equipment and systems will be inspected and certified each year, plus or minus 30 days from the effective date of the previous certification. In addition a formal inspection and certification is required for the following:

a. After initial installation of the equipment or system. A relocation and subsequent reinstallation of any shore-based aircraft recovery equipment or visual/optical landing aids system is considered an initial installation.

b. A major alteration of shore-based aircraft recovery equipment or visual/optical landing aids system. For the purpose of this instruction, the following applies:

(1) Removal and reinstallation or replacement of an absorber system on a previously certified installation requires recertification.

(2) Replacement of a visual/optical landing aids system requires recertification.

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(3) The removal and subsequent reinstallation of a previously certified Fresnel Lens Optical Landing System (FLOLS) at the same site does not require recertification. If the FLOLS is relocated to a non-inspected site, the FLOLS requires recertification.

c. Formal inspection and certification may be required at other times, as deemed necessary by NAVAIR, NAVAIRWARCENACDIVLKE, the air station commander, or their designated military/civilian representative.

## 7. Responsibilities.

a. Naval Air Systems Command Headquarters (NAVAIRHO) Aircraft Launch and Recovery Equipment Program Office (PMA251) has the life cycle management responsibility for the shore-based aircraft recovery equipment and shore-based visual/optical landing aid systems listed in enclosure (1) which are assigned to and installed at Naval Air Stations, Marine Corps Air Stations, other military airfields, and civilian airports. PMA251 is responsible for assuring this equipment is installed, configured, maintained, and operated in a proper manner. PMA251 will periodically inspect installed equipment and certify that design performance characteristics are maintained and that maintenance is performed in accordance with reference (a). PMA251 is responsible for managing the certification program by:

(1) Establishing certification policies, practices, and procedures.

(2) Coordinating the development of certification requirements.

(3) Integrating requirements for COMNAVAIRSYSCOM; organizations supported by NAVAIR; Commandant of the Marine Corps (CMC); Commander, Space and Naval Warfare Systems Command; Commander, Naval Facilities Engineering Command; North Atlantic Treaty Organization; Air Standardization Coordinating Committee; Federal Aviation Administration; and DoD into coordinated certification procedures and documents for use in the implementation of the program.

(4) Providing coordinated review of aviation facilities and equipment.

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(5) Establishing safety requirements and assuring that shore-based equipment or systems are installed, maintained, and functioning properly through periodic inspections.

(6) Issuing, extending, or rescinding certification.

(7) Budgeting, coordinating, and providing administrative support and personnel for the certification program.

(8) Providing technical assistance to training commands in the development of maintenance, operational, personnel training, and orientation programs.

b. NAVAIRWARCENACDIVLKE (Code 4.8.10) will administer the certification program by performing the following functions:

(1) Issue instructions, bulletins, and procedures to acquire data required for equipment/systems certification.

(2) By direction of COMNAVAIRSYSCOM and organizations supported by NAVAIR, issue formal certification for shore-based equipment and systems that have been formally inspected following the guidance of this instruction.

(3) By direction of COMNAVAIRSYSCOM and organizations supported by NAVAIR, withhold or rescind certification of equipment or systems not installed, configured, maintained, or operated in accordance with applicable technical manuals and directives. When certification is withheld or rescinded, specific reasons for the action and required corrective action will be provided.

(4) When requested, provide test programs and procedures for components listed in enclosure (1).

c. NAVAIRWARCENACDIVLKE (Code 4.8.11) will provide CAFSU or EASU personnel to coordinate, schedule, and provide technical assistance to air station commands regarding installation, operation, repair, maintenance, and inspection of NAVAIR cognizant equipment and systems listed in enclosure (1). Upon completion of a formal inspection of equipment or systems, the CAFSU or EASU representative will:

(1) Draft message containing certification/rescind recommendation.

(2) Request the inspected activity release draft message in a timely manner.

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(3) Provide the commander of the inspected activity or their designated representative with a complete listing of deficiencies or discrepancies and the CAFSU's or EASU's certification recommendation.

d. Air Station Commanders will:

(1) Provide the necessary support equipment, as well as trained and qualified personnel to operate the equipment or systems being inspected, and assist the CAFSU or EASU representative during the certification process.

(2) Be responsible for the continued maintenance and readiness of all equipment and systems between inspections and certifications in accordance with reference (a).

(3) Ensure all technical directives and publications are current for applicable assigned equipment.

(4) Type Commander (TYCOM) sponsored activities shall officially notify the appropriate activity TYCOM. Other activities shall officially notify NAVAIRWARCENACDIVLKE, EASU field office, under the following conditions:

(a) Whenever a major alteration/modification to the equipment or system covered by this instruction is scheduled.

(b) Scheduling for a certification inspection 45 days prior to the expiration of the current certification date.

(c) Any condition warranting the rescission of formal certification for the equipment or systems listed in enclosure (1).

8. Certification Documentation

a. Messages. Recommendation for certification or rescission of certification will be prepared in naval message format by the NAVAIRWARCENACDIVLKE CAFSU or EASU representative inspecting the equipment or system installation. The following format will be used:

(1) Precedence. The precedence assigned to the message should be consistent with operational urgency.

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(2) Distribution:

TO: NAVAIRWARCENACDIV LAKEHURST NJ//4.8.10.2/4.8.10.3//  
INFO: CMC WASHINGTON DC//ASL-41/ 45//\*  
COMNAVAIRSYSCOM PATUXENT RIVER MD//PMA251//  
COMMARCORBASESPAC CAMP SMITH HI//G-3//\*  
COMNAVAILANT NORFOLK VA//N433//\*\*  
COMNAVIRPAC SAN DIEGO CA//N435//\*\*  
COMNAVRESFOR NEW ORLEANS LA//515//\*\*  
COMNAVSAFECEN NORFOLK VA//11//  
COMCABEAST CHERRY PT NC//G-3//\*  
COMCABWEST EL TORO CA//G-3//  
CNATRA CORPUS CHRISTI TX//N33A/N335//\*\*  
OTHER NAVY/MARINE CORPS COMMANDS\*\*\*  
OTHER COGNIZANT COMMANDS\*\*\*

- \* Applicable for certification of United States Marine Corps equipment/systems.
- \*\* Applicable for certification of United States Navy equipment/systems.
- \*\*\* As applicable/required.

(3) Security Classification. As required.

(4) Standard Subject Identification Code (SSIC). The SSIC assigned to the subject equipment or system is //N13800//.

(5) Subject. The subject line will include the phrase "REQUEST FOR FORMAL CERTIFICATION" and the equipment or system nomenclature.

(6) Contents. Provide necessary data to substantiate recommendation for issuance of formal certification or rescission. Include model and runway identification, dates of inspection, serial/system number, air station, distance from the runway threshold, a list of service changes installed or incorporated since last certification inspection, activity point(s) of contact including commercial and DSN telephone numbers, and any other pertinent and necessary information. Include the following statement in the contents of the message:

"CONSISTENT WITH THE PROVISIONS OF REF(\_), NAVAIRINST 13800.13B, INTERIM CERTIFICATION REMAINS IN EFFECT AS OF THE CERTIFICATION INSPECTION COMPLETION (DATE). PENDING FINAL APPROVAL AND ISSUANCE OF FORMAL CERTIFICATION DOCUMENTATION BY

NAVAIRWARCENACDIVLKE and NAVAIRWARCENACDIVLKE CAFSU or EASU REP (NAME) RECOMMENDS CERTIFICATION BE ISSUED OR RESCINDED".

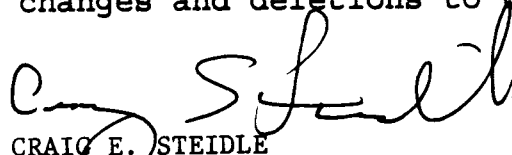
**NOTE:** The phrase or statement "NAVAIRWARCENACDIVLKE CAFSU or EASU REP (NAME) SENDS" will not be used.

b. Issuance of Certification. Formal certification from NAVAIRWARCENACDIVLKE will normally be issued via naval message.

9. Concurrence. This instruction has the concurrence of CNO (N885) and CMC (ASL-41/45). Marine Corps activities will take action prescribed herein unless specifically exempted by CMC.

10. Reports. The reporting requirements contained in paragraphs 8.a and 8.b, are exempt from reports control by reference (b).

11. Review. PMA251 shall annually review the contents herein and provide recommendations for changes and deletions to the commander.

  
CRAIG E. STEIDLE  
Acting

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SHORE-BASED AIRCRAFT RECOVERY EQUIPMENT AND VISUAL/OPTICAL  
LANDING AIDS SYSTEMS REQUIRING CERTIFICATION

1. Recovery Equipment

a. Type E, Mark 5, Mark 5 Mod 1, and Mark 5 Mod 3 (E-5 Chain Gear).

b. Type E, Mark 28 (E-28 Arresting Gear).

2. Visual/Optical Landing Aids Systems

a. Fresnel Lens Optical Landing Systems (FLOLS), Mark 8 Mod 0/1, includes FLOLS site.

b. Glide Slope Indicator (GSI), Mark 3 Mod 1.

c. Manually Operated Visual Landing Aids System (MOVLAS), Mark 2 Mod 2.

d. Precision Approach Path Indicator (PAPI).

e. Visual Approach Slope Indicator (VASI).

f. Improved Fresnel Lens Optical Landing System (IFLOLS).

g. Long Range Lineup System (LRLS).

h. Vertical and Short Takeoff and Landing-Optical Landing System (VSTOL-OLS).

i. Hover Path Indicator (HPI).

Enclosure (1)